

CLAIMS

1. Protected alcohol with formula (1)



wherein R^1 represents a linear, straight-chain alkyl group having 26-30 C-atoms, m is 1 or 2, and PG represents a protecting group chosen from the group of substituted methyl ethers, substituted ethyl ethers, substituted benzyl ethers and (substituted) silyl ethers with at least one substituent on the Si-atom being not a methyl group, in case m = 1; and a diol protecting group in case m = 2, with the proviso that PG is no saccharide.

2. Process for the preparation of a protected alcohol according formula (1)



wherein R^1 represents a linear, straight-chain alkyl group having 26-30 C-atoms, m is 1 or 2, and PG represents a protecting group chosen from the group of substituted methyl ethers, (substituted) ethyl ethers, (substituted) benzyl ethers and (substituted) silyl ethers with at least one substituent on the Si-atom being not a methyl group, in case m = 1; and a diol protecting group in case m = 2, with the proviso that PG is no saccharide, via an organometallic cross coupling reaction wherein a linear, straight-chain nucleophilic organometallic reagent of formula RCH_2M_1 is reacted with a linear, straight-chain electrophile of formula $(LG-CH_2-A-O-)_{\text{m}}PG$ (or a linear, straight-chain electrophile of formula RCH_2-LG with a nucleophilic organometallic reagent of formula $(M_1CH_2-A-O-)_{\text{m}}PG$), wherein R is H or a linear, straight-chain alkyl group with 1-28 C-atoms, M1 represents Li, Na, K, BZ_2 , wherein each Z independently represents OH, an alkyl group or an alkoxy group, or the 2 Z-groups together form a hydrocarbon ring, MgX , wherein X=halogen, ZnX , wherein X= halogen or $CH_2Si(CH_3)_3$, or MnX , wherein X=halogen, A is a C_{0-28} linear, straight-chain alkylene group,

LG represents a leaving group,
and m and PG are as described above.

3. Process according to claim 2, wherein the organometallic cross coupling reaction is performed in the presence of a transition metal catalyst and wherein M^1 represents MgX with X is halogen.
4. Process according to claim 3, wherein the nucleophilic organometallic reagent reacts with an alkyl halide, alkyl arylsulfonate or alkyl mesylate.
5. Process according to any one of claims 2-4, wherein first the protected alcohol with formula (1) is prepared according to any one of claims 2-4 and subsequently the protected alcohol is subjected to deprotection.